



# VSD-S

SMART AND INTELLIGENT PUMP  
VARIABLE SPEED DRIVE





Pressure setting range:- 1.0 bar - 3.5 / 5 bar  
Pressure Transmitter Connection :- G1/4" male thread  
Frequency range:50Hz-60Hz  
Protection grade:IP 65

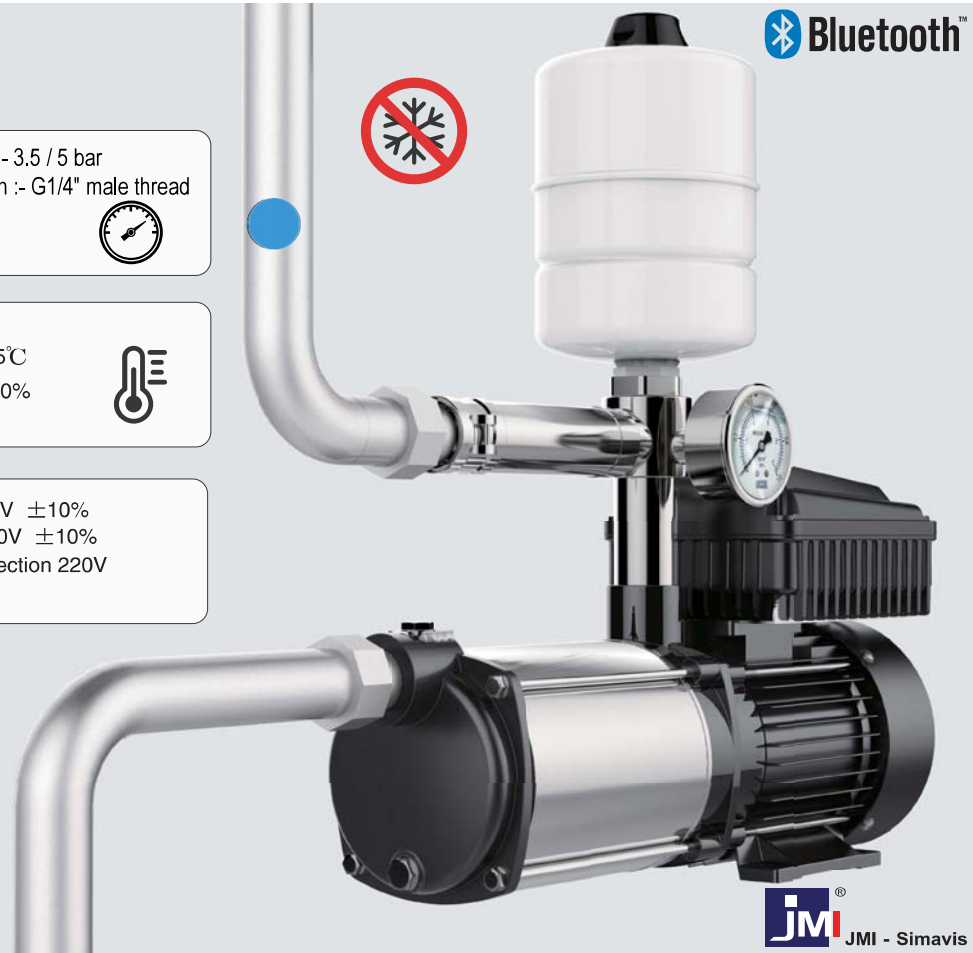


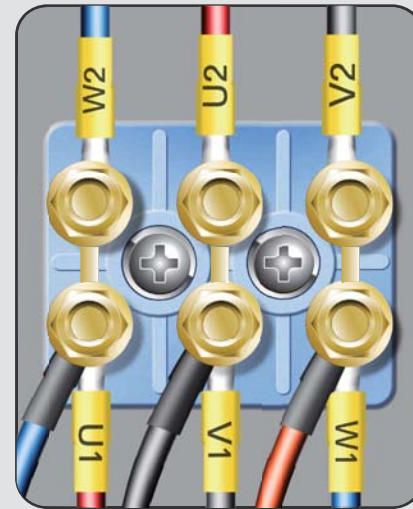
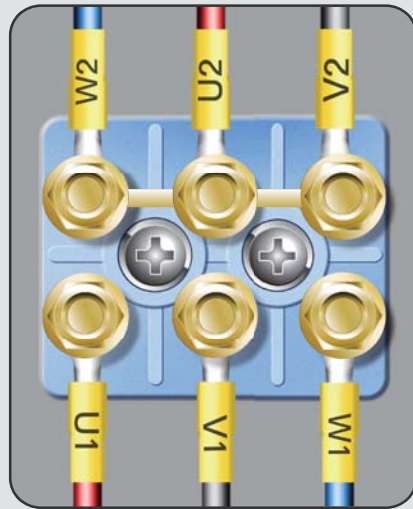
Max. Ambient temperature :45°C  
Ambient humidity:Less than 90%

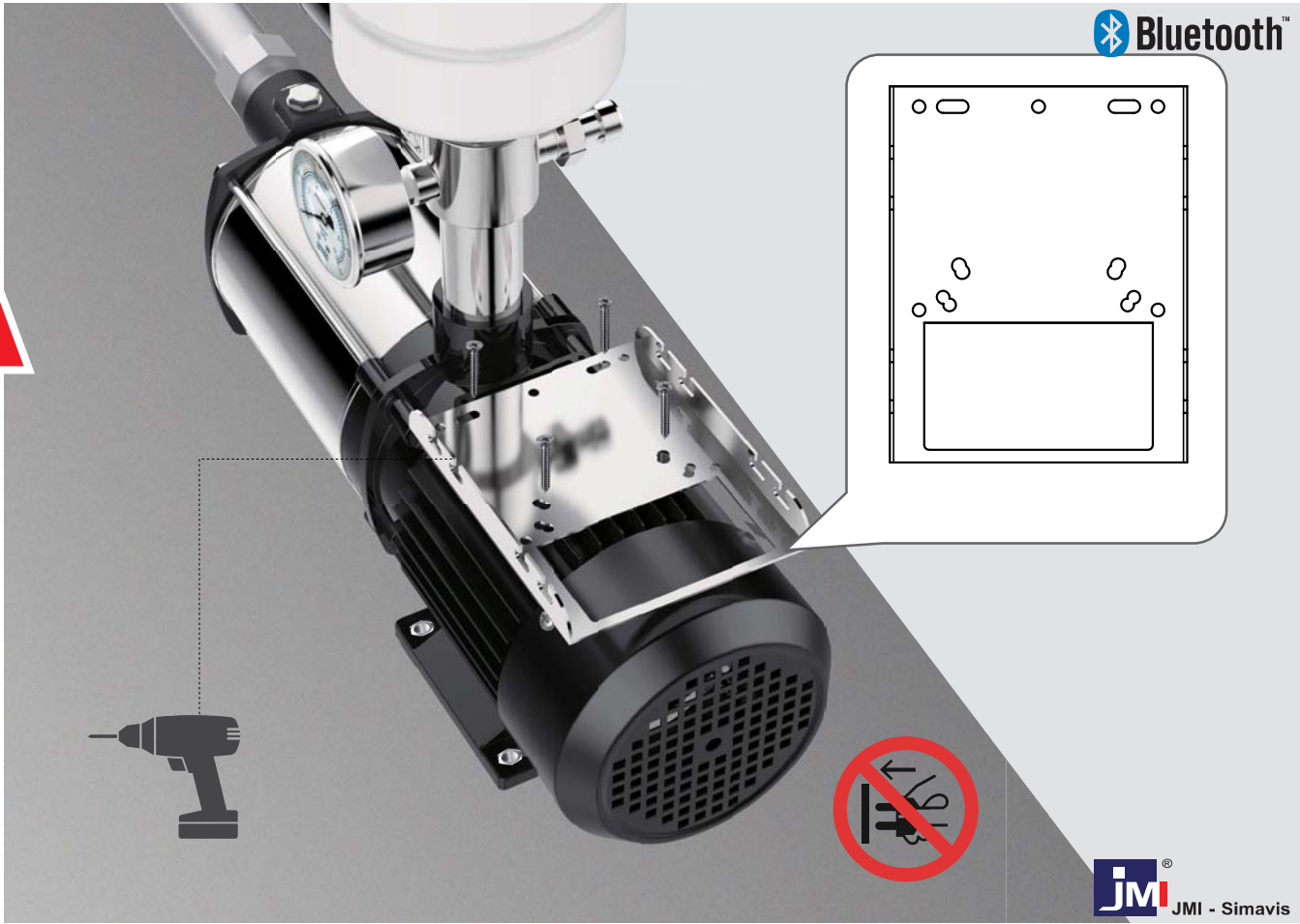


Input :Single phase 220V-240V ±10%  
Output:Three phase 220V-240V ±10%  
Motor Connection:Delta connection 220V  
Max. Power:1.1Kw/2.2Kw

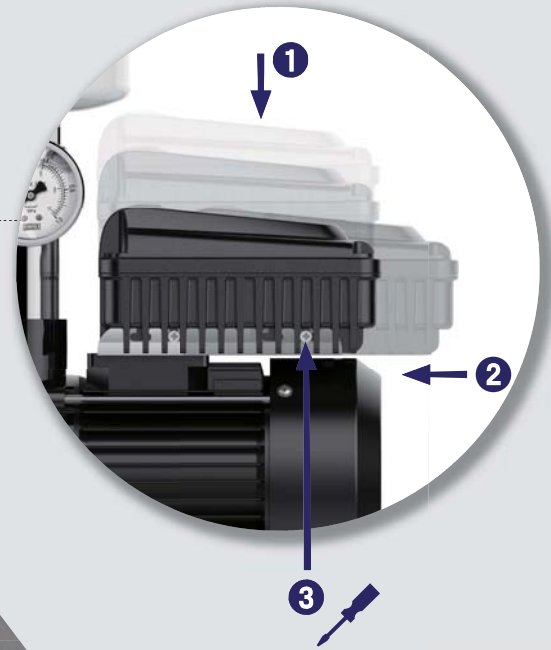
Classic Applications:





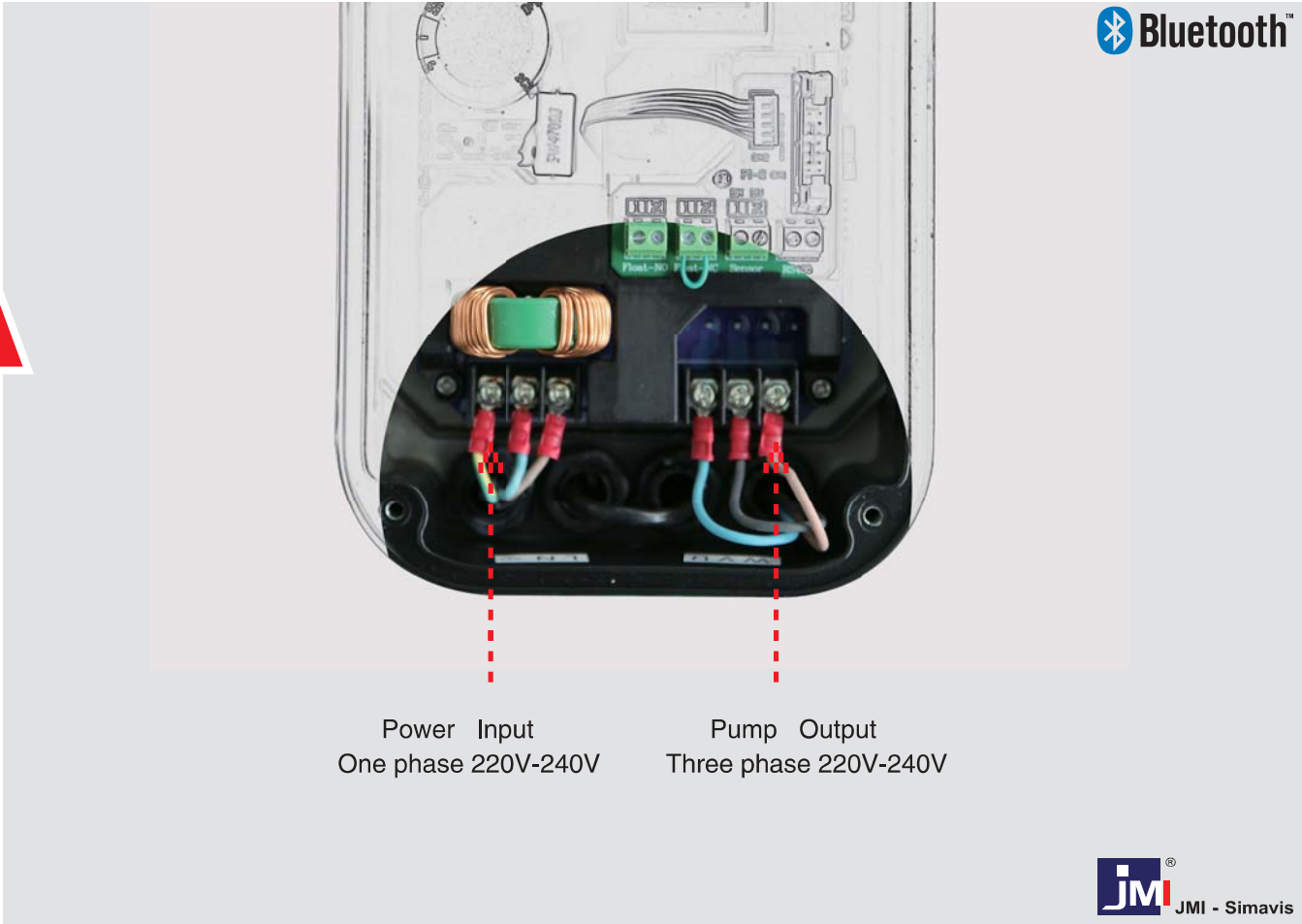


Bluetooth™



Sufficient space shall be allowed for effective Ventilation

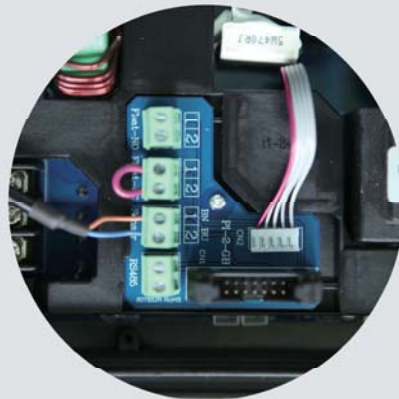
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Power Input  
One phase 220V-240V

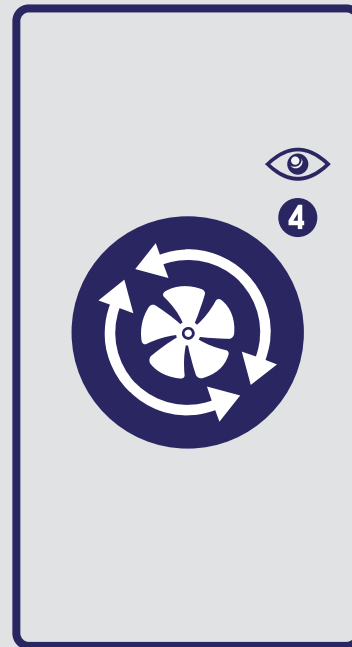
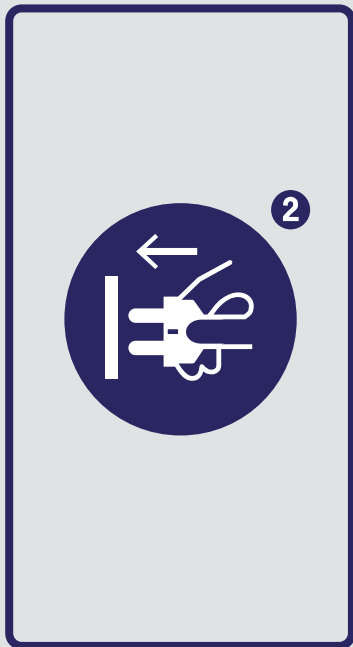
Pump Output  
Three phase 220V-240V

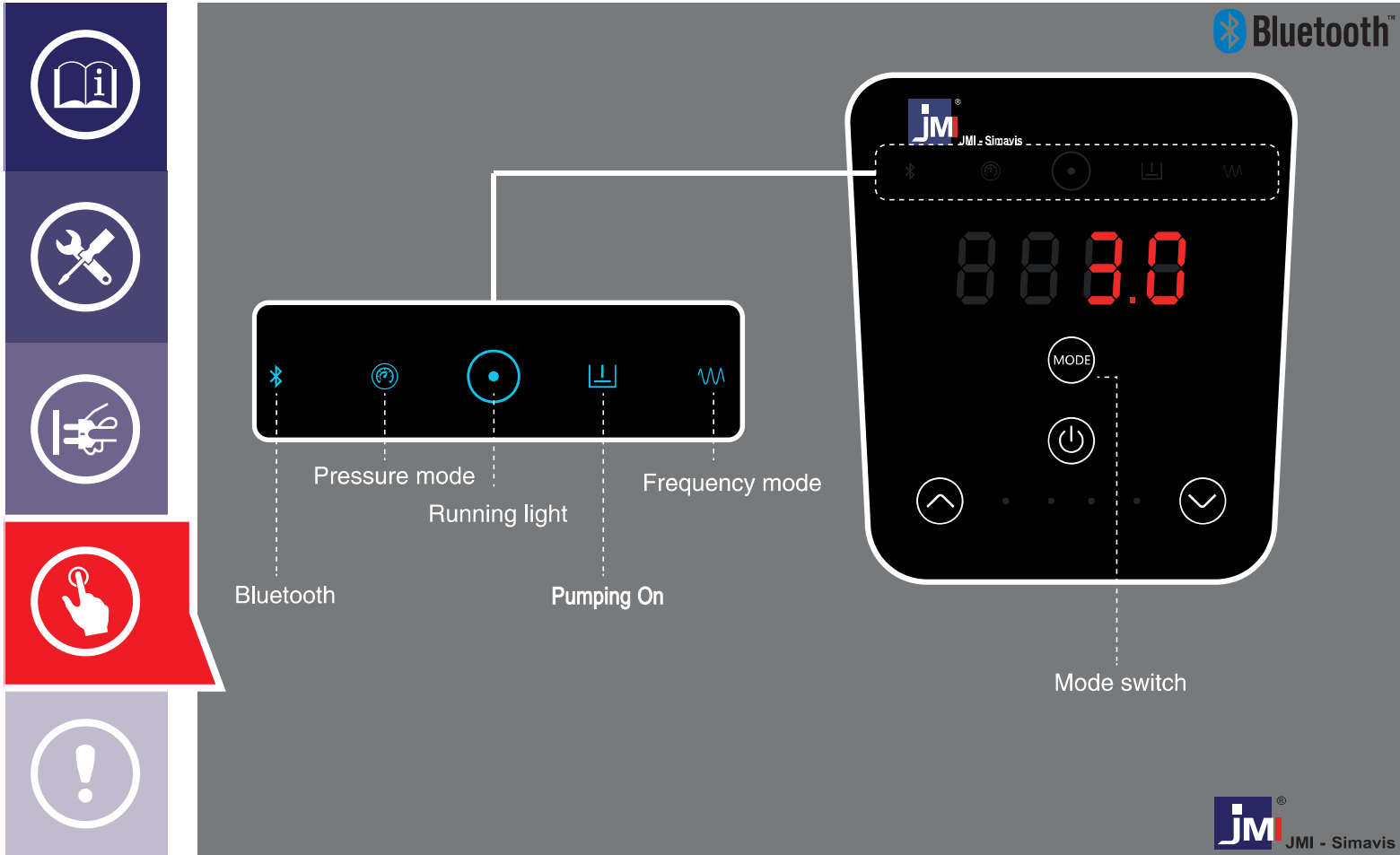
 Bluetooth™

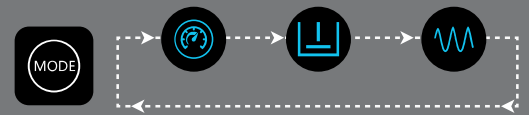
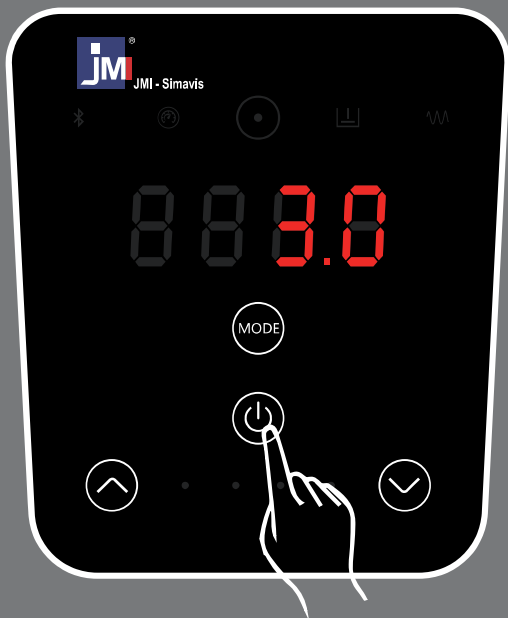


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OFF/ON Pressure

UP/+      DOWN/-

+ Display Frequency

+ + Enter the menu

+ Display running timer(H)

System reset: press and hold MODE before power on, and then keep the power on for 3 seconds



## MENU

Screen Display	Content	Range	Default	
00	Motor running direction	0/1	0	
01	Motor operating frequency	50Hz / 60Hz	50HZ	
02	pressure maximum setting	10/16/20bar	10Bar	
03	Carrier frequency	5-16KHZ	13K	
04	Motor start acceleration	0-99	30	
05	Motor stop acceleration	0-99	30	
06	Activate the start in difference with set point	0.2-0.5Bar	0 3	
07	Setting pressure to activate dry running condition	0.2-1BAR	0 4	
08	Pumping line leakage Alarm	0/1	1	
09	Leakage checking duration	1-10 min	2	
10	Percentage value P	1-99	8	The bigger,the faster
11	Intergral time I	1-99	6	The greater,the stability is worse
12	Differential D	0-50	1	The greater,the sensitivity is higher
13	For transfer system	0/1	1	Activate
14	Transfer system delay start time	0-99 min	30	Delay Start





Power Switch



Save

Reset



Screen Display	Reasons	Solutions
E1	Over voltage	Check incoming power supply
E2	Low voltage	Check incoming power supply
E3	Sensor open circuit	Check sensor connector
E4	Sensor short circuit	Check sensor connector
E5	Leakage alarm	Check any pipeline leakage and valve faulty
E6	Serial communication	Check internal wiring
E7	IPM module protection	Check internal wiring
E8	Overcurrent protection	Check motor
E9	Overload protection	Check whether pump & motor if malfunction
E10	Dry running when it is by pressure setting	Check the pressure transmitter & connection
E11	Dry running when it is by float switch	Check the float switch & connection

The system is reset one minute after the first failure occurs, and the system is shut down after the reset is failure.



 Bluetooth™



1. Use special RS485 shielded twisted pair wire to connect the communication terminal, and the line sequence must be consistent when connected.
2. For Multi-units operation, Master unit connected to transmitter with yellow light keep on flashing while slave units are indicated by just yellow light. Bluetooth is disable
3. Try to on the power supply similtenteusly on multi-units operation, if not master unit and slave unit shall not be more than 5 sec interval to on the power supply
4. VSD consists of automatic switchover function in operation. By recording and calculating the running time, it determine next unit to operate in line of equalization running operating time



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